

**CITY OF RIALTO  
2009-2013  
CAPITAL IMPROVEMENT PROGRAM**

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# **Storm Drain Capital**

# CITY OF RIALTO

## 2009-2013 CAPITAL IMPROVEMENT PROGRAM

### STORM DRAIN CAPITAL

#### Storm Drain Master Plan and Improvements

**Location:** Citywide

#### **Project Background**

Provide new citywide Storm Drain Master Plan. The last update of the City's Storm Drain Master Plan was in 1988. Several changes in land use, development and improvements have altered the drainage pattern within the City. The Route 210 Freeway, Target Center, planned Renaissance Specific Plan and other large developments have altered the drainage pattern and interception points within the system. The San Bernardino County Flood Control District is willing to participate if our update includes all the area within Zone 3-3.

#### **Project Scope and Goal**

Account for developments within the past 20 years since the last update. Consider the drainage area fee in relation to what must still be constructed. Provide guidance to the development community on which drains are needed and what areas they serve and any improvements on existing drains.

#### **Project Justification**

First completed in 1973 and then updated in 1988, the current master plan of drains was a County project done at a time when much of Rialto remained vacant land. Development of the area with large warehouse operations, planned new home development, redevelopment of the airport property and the construction of portions of storm drains have altered the drainage patterns within the community and change the needs for additional construction.

#### **Fiscal Implications**

Account # 230-500-4720-2011-050600-00

#### **Financial Information**

Project Expenditure		-----Five Year Funding-----					Estimated Total Project Cost
		2008 / 09	2009 / 10	2010 / 11	2011 / 12	2012 / 13	
Administration							
Planning / Design / Engineering							
Right of Way							
Utility Relocation							
Construction							
TOTAL							

Funding Descriptions	Actual Expenditures through 6/30/2008	Carry Over As Of 7/1/2008	-----Five Year Funding-----					Estimated Total Project Cost
			2008 / 09	2009 / 10	2010 / 11	2011 / 12	2012 / 13	
Fund 230 Drainage	\$125,597	\$230,470	\$0	\$0	\$0	\$0	\$0	\$356,067
TOTAL	\$125,597	\$230,470	\$0	\$0	\$0	\$0	\$0	\$356,067

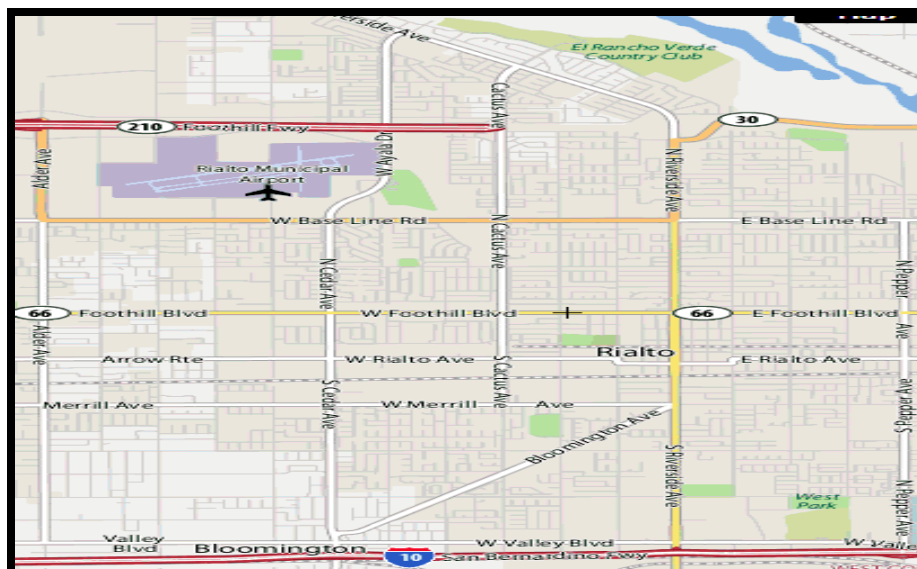
# CITY OF RIALTO 2009-2013 CAPITAL IMPROVEMENT PROGRAM STORM DRAIN CAPITAL

## Storm Drain Master Plan and Improvements

Photo of Proposed Project



Map of Proposed Project



# CITY OF RIALTO

## 2009-2013 CAPITAL IMPROVEMENT PROGRAM

### STORM DRAIN CAPITAL

#### Rialto Channel Improvement South of the I-10 to Cameron

**Location:** Rialto Channel from the Southern Pacific Railroad to Cameron Avenue

#### Project Background

The San Bernardino County Flood Control District (SBCFCD) has prepared the plans and specifications for the improvement of the Rialto Channel south of the I-10 to Cameron Avenue. The SBCFCD has completed work to obtain environmental clearance and could begin construction once funding is secured. The existing channel is a trapezoidal earth channel and will be replaced with a concrete channel and box culvert under Riverside Avenue.

#### Project Scope and Goal

Improve the capacity of the existing channel to eliminate flooding along San Bernardino Avenue (in Colton) by allowing connection of currently blocked drains. Eliminate the requirement on developments below the Cactus Basins to retain all post development flows on site when combined with the improvement of Cactus Channel north of the I-10 freeway.

#### Project Justification

The current channel lacks sufficient capacity to meet the master storm drain plan needs. Increased capacity will allow development without increased on-site detention.

#### Fiscal Implications

Account # 230-500-4720-3001-080707-00

#### Financial Information

Project Expenditure		-----Five Year Funding-----					Estimated Total Project Cost
		2008 / 09	2009 / 10	2010 / 11	2011 / 12	2012 / 13	
Administration		\$430,000					\$430,000
Planning / Design / Engineering		\$430,000					\$430,000
Right of Way							
Utility Relocation							
Construction		\$3,440,000					\$3,440,000
TOTAL		\$4,300,000					\$4,300,000

Funding Descriptions	Actual Expenditures through 6/30/2008	Carry Over As Of 7/1/2008	-----Five Year Funding-----					Estimated Total Project Cost
			2008 / 09	2009 / 10	2010 / 11	2011 / 12	2012 / 13	
Fund 230 Drainage	\$0	\$0	\$4,300,000	\$0	\$0	\$0	\$0	\$4,300,000
TOTAL	\$0	\$0	\$4,300,000	\$0	\$0	\$0	\$0	\$4,300,000

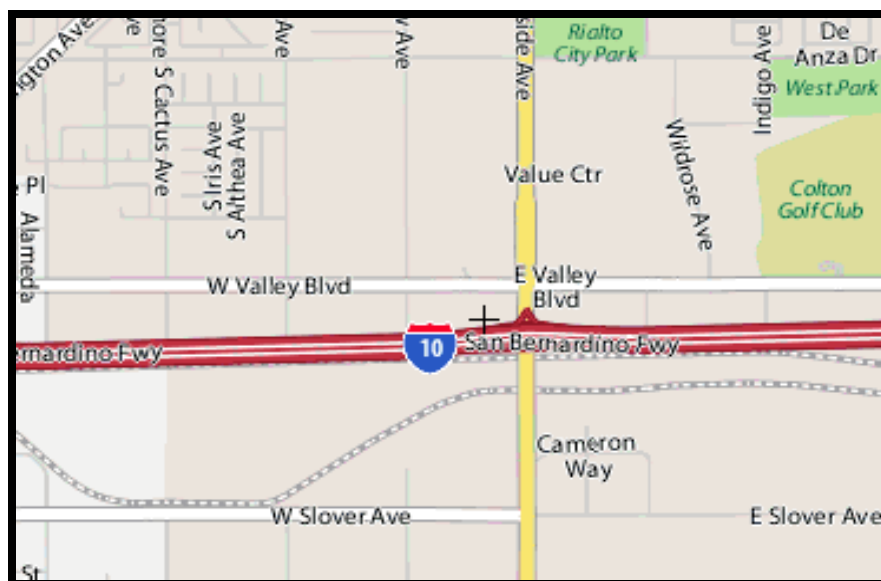
**CITY OF RIALTO**  
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**Rialto Channel Improvement South of the I-10 to Cameron**

**Photo of Proposed Project**



**Map of Proposed Project**



# CITY OF RIALTO

## 2009-2013 CAPITAL IMPROVEMENT PROGRAM

### STORM DRAIN CAPITAL

#### Rialto Channel Improvement from North of the I-10

**Location:** Rialto Channel Along Cactus Avenue

#### **Project Background**

The San Bernardino County Flood Control District (SBCFCD) has prepared the plans and specifications for the improvement of the Rialto Channel along Cactus Avenue. The SBCFCD will begin working to obtain environmental clearance once funding is secured. The existing channel is a trapezoidal earth channel and will be replaced with a concrete channel. The SBCFCD will fund this project in 2015 or 2016. If the City desires to begin construction before SBCFCD's timeline, it will negotiate an advancement agreement with the county. As a result, the City will fund the construction and get reimbursed at a later date.

#### **Project Scope and Goal**

Improve the capacity of the existing channel to eliminate flooding adjacent to this channel. Eliminate the requirement on developments below the Cactus Basins to retain all post development flows on site.

#### **Project Justification**

The current channel does not have sufficient capacity to meet the master storm drain plan needs. Increased capacity will allow development below the Cactus Basin to be able to discharge to the channel without increased detention.

#### **Fiscal Implications**

Account # 230-500-4720-3001-080707-00

#### **Financial Information**

Project Expenditure		-----Five Year Funding-----					Estimated Total Project Cost
		2008 / 09	2009 / 10	2010 / 11	2011 / 12	2012 / 13	
Administration							
Planning / Design / Engineering							
Right of Way							
Utility Relocation							
Construction							
TOTAL							

Funding Descriptions	Actual Expenditures through 6/30/2008	Carry Over As Of 7/1/2008	-----Five Year Funding-----					Estimated Total Project Cost
			2008 / 09	2009 / 10	2010 / 11	2011 / 12	2012 / 13	
Fund 230 Drainage	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$1,000,000
Fund SBCFCD	\$0	\$0	\$0	\$0	\$0	\$10,178,000	\$0	\$10,178,000
TOTAL	\$0	\$1,000,000	\$0	\$0	\$0	\$10,178,000	\$0	\$11,178,000

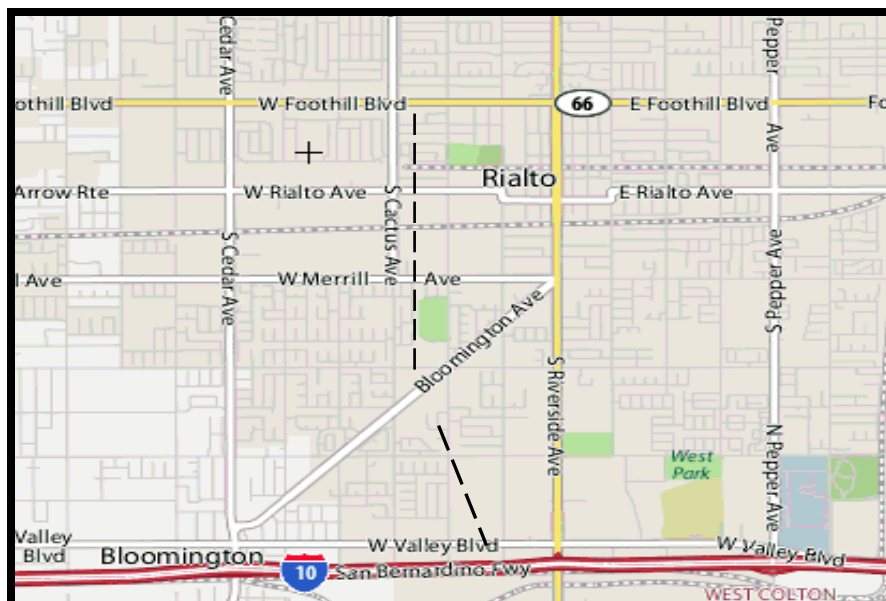
# CITY OF RIALTO 2009-2013 CAPITAL IMPROVEMENT PROGRAM STORM DRAIN CAPITAL

## Rialto Channel Improvement from North of the I-10

Photo of Proposed Project



Map of Proposed Project



# CITY OF RIALTO

## 2009-2013 CAPITAL IMPROVEMENT PROGRAM

### STORM DRAIN CAPITAL

#### Cactus Basin #3

**Location:** Cactus Basin #3, North of Baseline

#### Project Background

The San Bernardino County Flood Control District (SBCFCD) has prepared the plans and specifications for the improvement of Cactus Basin # 3, which is immediately north of Baseline and west of Cactus Avenue. The project is currently scheduled for the 2008 year with the City supplying advance funding to assist.

#### Project Scope and Goal

Improve the capacity of the existing basin to eliminate flooding adjacent to the downstream channel.

#### Project Justification

The current channel lacks sufficient capacity to meet the master storm drain plan needs. Due to this, the development below the basins and tributary to Rialto Channel are conditions to not exceed pre-development flows to the channel.

#### Fiscal Implications

Account # 230-500-4720-3001-080709-00

Account # 336-500-1799-3001-080709-00

#### Financial Information

Project Expenditure		-----Five Year Funding-----					Estimated Total Project Cost
		2008 / 09	2009 / 10	2010 / 11	2011 / 12	2012 / 13	
Administration							
Planning / Design / Engineering							
Right of Way							
Utility Relocation							
Construction							
TOTAL							

Funding Descriptions	Actual Expenditures through 6/30/2008	Carry Over As Of 7/1/2008	-----Five Year Funding-----					Estimated Total Project Cost
			2008 / 09	2009 / 10	2010 / 11	2011 / 12	2012 / 13	
Fund 230 Drainage	\$0	\$0	\$1,300,000	\$0	\$0	\$0	\$0	\$1,300,000
Fund 336 RDA Bond	\$0	\$0	\$2,200,000	\$0	\$0	\$0	\$0	\$2,200,000
TOTAL	\$0	\$0	\$3,500,000	\$0	\$0	\$0	\$0	\$3,500,000

# CITY OF RIALTO 2009-2013 CAPITAL IMPROVEMENT PROGRAM STORM DRAIN CAPITAL

## Cactus Basin #3

Photo of Proposed Project



Map of Proposed Project



# CITY OF RIALTO

## 2009-2013 CAPITAL IMPROVEMENT PROGRAM

### STORM DRAIN CAPITAL

#### Three Box Culverts On Rialto Channel

**Location:** Rialto Channel Along Cactus Avenue

#### **Project Background**

The San Bernardino County Flood Control District (SBCFCD) has prepared the plans and specifications for the improvement of three box culverts along Rialto Channel at Foothill, Etiwanda, and Merrill Avenues. The existing channel is a trapezoidal earth channel and will be replaced with a concrete channel.

#### **Project Scope and Goal**

Construction of the box culverts will improve the street section to the ultimate design width and avoid traffic disruption in the future.

#### **Project Justification**

The culverts will provide the ultimate street section at the three crossing locations and construction will eliminate future environmental issues and result in lower overall costs.

#### **Fiscal Implications**

Account # 336-500-1799-3001-060700-00

#### **Financial Information**

Project Expenditure		-----Five Year Funding-----					Estimated Total Project Cost
		2008 / 09	2009 / 10	2010 / 11	2011 / 12	2012 / 13	
Administration		\$180,000					\$180,000
Planning / Design / Engineering		\$180,000					\$180,000
Right of Way							
Utility Relocation							
Construction		\$1,440,000					\$1,440,000
TOTAL		\$1,800,000					\$1,800,000

Funding Descriptions	Actual Expenditures through 6/30/2008	Carry Over As Of 7/1/2008	-----Five Year Funding-----					Estimated Total Project Cost
			2008 / 09	2009 / 10	2010 / 11	2011 / 12	2012 / 13	
Fund 336 RDA Bond	\$0	\$0	\$1,800,000	\$0	\$0	\$0	\$0	\$1,800,000
TOTAL	\$0	\$0	\$1,800,000	\$0	\$0	\$0	\$0	\$1,800,000

## Three Box Culverts On Rialto Channel

A detailed map of a neighborhood in San Diego. The map shows a grid of streets. A yellow line represents W Foothill Blvd, running horizontally across the middle. A grey circle with a black outline is located on N Spruce Ave, just north of W Foothill Blvd. To the right of this circle, a green area is labeled 'Lilac Park'. The map includes labels for various streets: W Rosewood St, Mason St, W Grove St, W Ramona Dr, W Foothill Blvd, W 3rd St, W McKinley St, June St, W 2nd St, W 1st St, N Fillmore Ave, N Blanton Ave, N Arrowhead Ave, N Beechwood Ave, N Larch Ave, N Glenwood Ave, N Spruce Ave, N Millard Ave, N Clifford Ave, N Park Ave, and W Yucca Ave. The map also shows a network of smaller streets and a larger area labeled 'Lilac Park' in green.

